

# SEQUENCE LISTING

<110> Prickett, Kathryn S  
Young, Andrew A

<120> MODIFIED EXENDINS AND EXENDIN AGONISTS

<130> 030639.0028.UTL(253/204)

<140> 09/561,226

<141> 2000-04-28

<150> 60/132,018

<151> 1999-04-30

<160> 240

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<220>

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<222> 39

<223> Ser in position 39 is amidated

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His	Ser	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5					10					15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly	Pro	Ser
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Ser	Gly	Ala	Pro	Pro	Pro	Ser									
		35													

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<213> Heloderma Suspectum

<220>

<221> AMIDATION

<222> 39

<223> Ser in position 39 is amidated

<400> 2

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5					10					15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly	Pro	Ser
		20						25						30	
Ser	Gly	Ala	Pro	Pro	Pro	Ser									
		35													

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1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly  
20 25 30

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<223> Gly in position 30 is amidated

<400> 4  
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1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly  
20 25 30

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<223> Asn in position 28 is amidated

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His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

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<223> Ser in position 39 is amidated

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His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5					10				15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser
			20				25						30		
Ser	Gly	Ala	Pro	Pro	Pro	Ser									
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<223> Asn in position 28 is amidated

<400> 7

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5					10				15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn				
			20				25								

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<223> Asn in position 28 is amidated

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His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5					10				15		
Glu	Ala	Val	Arg	Leu	Ala	Ile	Glu	Phe	Leu	Lys	Asn				
			20				25								

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<223> Xaa stands for Pgly

<220>

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<222> 18

<223> Ser in position 18 is amidated

<400> 9

His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Xaa	Phe	Ile	Glu	Phe	Pro	Pro	Pro
1				5				10					15		
Pro	Ser														

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<220>

<221> VARIANT

<222> 10

<223> Xaa stands for naph

<220>

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<222> 18

<223> Ser in position 18 is amidated

<400> 10

His	Gly	Glu	Phe	Thr	Ser	Asp	Leu	Met	Xaa	Ile	Glu	Trp	Pro	Pro	Pro
1				5				10					15		
Pro	Ser														

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<222> 18

<223> Ser in position 18 is amidated

<400> 11

His Gly Glu Phe Thr Ser Asp Leu Met Phe Val Glu Trp Pro Pro Pro  
1 5 10 15  
Pro Ser

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<223> Ser in position 18 is amidated

<400> 12

His Gly Glu Phe Thr Ser Asp Leu Leu Phe Val Glu Phe Pro Pro Pro  
1 5 10 15  
Pro Ser

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<223> Xaa stands for tBug

<220>

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His Gly Glu Phe Thr Ser Asp Leu Met Phe Xaa Glu Trp Pro Pro Pro  
1 5 10 15  
Pro Ser

<210> 14

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<220>  
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1 5 10 15  
Pro Ser

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1 5 10 15  
Pro Ser

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His Ala Glu Phe Thr Ser Asp Leu Leu Phe Ile Glu Phe Pro Pro Pro  
1 5 10 15  
Pro Ser

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<223> Xaa in positions 14-17 is tPro

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<400> 17  
His Gly Glu Phe Thr Ser Asp Leu Met Phe Ile Glu Trp Xaa Xaa Xaa  
1 5 10 15  
Xaa Ser

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His Gly Glu Phe Thr Ser Asp Leu Met Phe Ile Glu Trp Pro Xaa Xaa  
1 5 10 15  
Xaa Ser

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<220>

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<223> Ser in position 18 is amidated

<400> 19

His Gly Glu Phe Thr Ser Asp Leu Met Phe Ile Glu Trp Xaa Xaa Xaa

1 5 10 15  
Xaa Ser

<210> 20

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<223> Xaa in positions 15-17 is hPro

<220>

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<223> Ser in position 18 is amidated

<400> 20

His Gly Glu Phe Thr Ser Asp Leu Met Phe Ile Glu Trp Pro Xaa Xaa

1 5 10 15  
Xaa Ser

<210> 21

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<223> Xaa in positions 14-17 is tPro

<220>

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<223> Ser in position 18 is amidated

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His Gly Glu Phe Thr Ser Asp Leu Leu Phe Ile Glu Phe Xaa Xaa Xaa





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His Gly Glu Phe Thr Ser Asp Leu Met Phe Ile Glu Trp Pro Xaa Xaa  
1 5 10 15  
Xaa Ser

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<223> Gly in position 30 is amidated

<400> 26

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly  
 20 25 30

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 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
 20 25

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 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

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<400> 29

His Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

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 His Gly Glu Gly Ala Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

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 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

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<400> 32

His Gly Glu Gly Thr Phe Thr Ala Asp Leu Ser Lys Gln Leu Glu Glu  
 1                      5                      10                      15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
                     20                      25

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 1                      5                      10                      15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
                     20                      25

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 <223> Asn in position 28 is amidated

<400> 34  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ala Lys Gln Leu Glu Glu  
 1                      5                      10                      15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
                     20                      25

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<400> 35

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Ala Gln Leu Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

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<400> 36  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Ala Leu Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

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 <223> Asn in position 28 is amidated

<400> 37  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Ala Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

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<400> 38

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 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

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 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

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 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1 5 10 15  
 Ala Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

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<400> 41

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1                      5                      10                      15  
 Glu Ala Ala Arg Leu Phe Ile Glu Phe Leu Lys Asn  
                     20                      25

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 <223> Asn in position 28 is amidated

<400> 42  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1                      5                      10                      15  
 Glu Ala Val Ala Leu Phe Ile Glu Phe Leu Lys Asn  
                     20                      25

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<220>  
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 <223> Asn in position 28 is amidated

<400> 43  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1                      5                      10                      15  
 Glu Ala Val Arg Ala Phe Ile Glu Phe Leu Lys Asn  
                     20                      25

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 <223> Asn in position 28 is amidated

<400> 44



His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1                      5                      10                      15  
 Glu Ala Val Arg Leu Phe Ile Ala Phe Leu Lys Asn  
                     20                      25

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 <223> Asn in position 28 is amidated

<400> 45  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1                      5                      10                      15  
 Glu Ala Val Arg Leu Phe Ile Glu Ala Leu Lys Asn  
                     20                      25

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 <223> Asn in position 28 is amidated

<400> 46  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1                      5                      10                      15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Ala Lys Asn  
                     20                      25

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 <223> Asn in position 28 is amidated

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His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Ala Asn  
 20 25

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 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Ala  
 20 25

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 <222> 38  
 <223> Pro in position 38 is amidated

<400> 49  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
 20 25 30  
 Ser Gly Ala Pro Pro Pro  
 35

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 <223> Pro in position 38 is amidated

<400> 50

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro  
35

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<222> 37

<223> Pro in position 37 is amidated

<400> 51

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro  
35

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<222> 37

<223> Pro in position 37 is amidated

<400> 52

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro  
35

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<220>

<221> AMIDATION

<222> 36

<223> Pro in position 36 is amidated

<400> 53

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10					15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly	Pro	Ser
			20				25					30			
Ser	Gly	Ala	Pro												
			35												

<210> 54

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<220>

<221> AMIDATION

<222> 36

<223> Pro in position 36 is amidated

<400> 54

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5				10					15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser
			20				25					30			
Ser	Gly	Ala	Pro												
			35												

<210> 55

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 35

<223> Ala in position 35 is amidated

<400> 55

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10					15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly	Pro	Ser
			20				25					30			
Ser	Gly	Ala													
			35												

<210> 56  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 35  
<223> Ala in position 35 is amidated

<400> 56  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala  
35

<210> 57  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 34  
<223> Gly in position 34 is amidated

<400> 57  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly

<210> 58  
<211> 34  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 34  
<223> Gly in position 34 is amidated

<400> 58  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu

1                      5                      10                      15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
                     20                      25                      30  
 Ser Gly

<210> 59  
 <211> 33  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 33  
 <223> Ser in position 33 is amidated

<400> 59  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
   1                      5                      10                      15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
                     20                      25                      30  
 Ser

<210> 60  
 <211> 33  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 33  
 <223> Ser in position 33 is amidated

<400> 60  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
   1                      5                      10                      15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
                     20                      25                      30  
 Ser

<210> 61  
 <211> 32  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 32

<223> Ser in position 32 is amidated

<400> 61

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10				15			
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly	Pro	Ser
		20					25					30			

<210> 62

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 32

<223> Ser in position 32 is amidated

<400> 62

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5				10				15			
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser
		20					25					30			

<210> 63

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 31

<223> Pro in position 31 is amidated

<400> 63

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10				15			
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly	Pro	
		20					25					30			

<210> 64

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 31

<223> Pro in position 31 is amidated

<400> 64

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5					10				15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	Gly	Gly	Pro	
			20				25						30		

<210> 65

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 30

<223> Gly in position 30 is amidated

<400> 65

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5					10				15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	Gly	Gly		
			20				25						30		

<210> 66

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 29

<223> Gly in position 29 is amidated

<400> 66

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5					10				15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly			
			20				25								

<210> 67

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence



<220>

<221> AMIDATION

<222> 29

<223> Gly in position 29 is amidated

<400> 67

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5				10						15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	Gly			
			20				25								

<210> 68

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 31, 36-38

<223> Xaa in positions 31, 36-38 is tPro

<220>

<221> AMIDATION

<222> 38

<223> tPro in position 38 is amidated

<400> 68

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10						15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly	Xaa	Ser
			20				25					30			
Ser	Gly	Ala	Xaa	Xaa	Xaa										
			35												

<210> 69

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> (36)...(38)

<223> Xaa in positions 36-38 is tPro

<220>

<221> AMIDATION

<222> 38

<223> tPro in position 38 is amidated

<400> 69

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
 20 25 30  
 Ser Gly Ala Xaa Xaa Xaa  
 35

<210> 70  
 <211> 37  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 31  
 <223> Xaa in position 31 stands for Nme

<220>  
 <221> AMIDATION  
 <222> 37  
 <223> Pro in position 37 is amidated

<400> 70  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser  
 20 25 30  
 Ser Gly Ala Pro Pro  
 35

<210> 71  
 <211> 37  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 31, 36-37  
 <223> Xaa in position 31, 36-37 is Nme

<220>  
 <221> AMIDATION  
 <222> 37  
 <223> Nme in position 37 is amidated

<400> 71  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser  
 20 25 30  
 Ser Gly Ala Xaa Xaa

<210> 72  
 <211> 37  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 31, 36-37  
 <223> Xaa in positions 31, 36-37 stands for hPro

<220>  
 <221> AMIDATION  
 <222> 37  
 <223> hPro in position 37 is amidated

<400> 72  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser  
 20 25 30  
 Ser Gly Ala Xaa Xaa  
 35

<210> 73  
 <211> 36  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 31, 36  
 <223> Xaa in positions 31 and 36 stands for hPro

<220>  
 <221> AMIDATION  
 <222> 36  
 <223> hPro in position 36 is amidated

<400> 73  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser  
 20 25 30  
 Ser Gly Ala Xaa  
 35

<210> 74  
 <211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 35

<223> Ala in position 35 is amidated

<400> 74

Arg	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10				15			
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly	Pro	Ser
			20				25					30			
Ser	Gly	Ala													
		35													

<210> 75

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 30

<223> Gly in position 30 is amidated

<400> 75

His	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10				15			
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly		
			20				25					30			

<210> 76

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 6

<223> Xaa in position 6 stands for naph

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 76

His Gly Glu Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

<210> 77  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 77  
 His Gly Glu Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
 20 25

<210> 78  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 78  
 His Gly Glu Gly Thr Phe Ser Thr Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
 20 25

<210> 79  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 79

His Gly Glu Gly Thr Phe Thr Ser Glu Leu Ser Lys Gln Met Ala Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
 20 25

<210> 80  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa in position 10 stands for pGly

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 80  
 His Gly Glu Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Leu Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

<210> 81  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 22  
 <223> Xaa in position 22 stands for naph

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 81  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Xaa Ile Glu Phe Leu Lys Asn  
 20 25

<210> 82  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 23

<223> Xaa in position 23 stands for tBug

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 82

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10						15	
Glu	Ala	Val	Arg	Leu	Phe	Xaa	Glu	Trp	Leu	Lys	Asn				
			20					25							

<210> 83

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 83

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5				10						15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Asp	Phe	Leu	Lys	Asn				
			20					25							

<210> 84

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 33

<223> Ser in position 33 is amidated

<400> 84

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Ala	Ser	Lys	Gln	Leu	Glu	Glu
1				5				10						15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser
			20					25					30		

Ser

<210> 85  
<211> 29  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 29  
<223> Gly in position 29 is amidated

<400> 85  
His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly  
20 25

<210> 86  
<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> VARIANT  
<222> 31, 36-37  
<223> Xaa in positions 31, 36-37 stands for hPro

<220>  
<221> AMIDATION  
<222> 37  
<223> hPro in position 37 is amidated

<400> 86  
His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser  
20 25 30  
Ser Gly Ala Xaa Xaa  
35

<210> 87  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence



<220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa in position 1 stands for  
       4-Imidazolylpropionyl-Gly

<220>  
 <221> VARIANT  
 <222> 26  
 <223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>  
 <221> AMIDATION  
 <222> 27  
 <223> Asn in position 27 is amidated

<400> 87  
 Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu  
   1                  5                  10                  15  
 Ala Val Arg Leu Phe Ile Glu Trp Leu Xaa Asn  
           20                          25

<210> 88  
 <211> 27  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa in position 1 stands for  
       4-Imidazolylpropionyl-Gly

<220>  
 <221> VARIANT  
 <222> 26  
 <223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>  
 <221> AMIDATION  
 <222> 27  
 <223> Asn in position 27 is amidated

<400> 88  
 Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu  
   1                  5                  10                  15  
 Ala Val Arg Leu Phe Ile Glu Phe Leu Xaa Asn  
           20                          25

<210> 89  
 <211> 29  
 <212> PRT  
 <213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> VARIANT  
<222> 1  
<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly

<220>  
<221> VARIANT  
<222> 26  
<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>  
<221> AMIDATION  
<222> 29  
<223> Gly in position 29 is amidated

<400> 89  
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu  
1 5 10 15  
Ala Val Arg Leu Phe Ile Glu Trp Leu Xaa Asn Gly Gly  
20 25

<210> 90  
<211> 29  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> VARIANT  
<222> 1  
<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly

<220>  
<221> VARIANT  
<222> 26  
<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>  
<221> AMIDATION  
<222> 29  
<223> Gly in position 29 is amidated

<400> 90  
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu  
1 5 10 15  
Ala Val Arg Leu Phe Ile Glu Phe Leu Xaa Asn Gly Gly  
20 25

<210> 91  
<211> 27

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> VARIANT  
<222> 1  
<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly

<220>  
<221> VARIANT  
<222> 27  
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>  
<221> AMIDATION  
<222> 27  
<223> Lys-NH(epsilon) octanoyl in position 27 is amidated

<400> 91  
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu  
1 5 10 15  
Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Xaa  
20 25

<210> 92  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> VARIANT  
<222> 1  
<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly

<220>  
<221> VARIANT  
<222> 27  
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>  
<221> AMIDATION  
<222> 27  
<223> Lys-NH(epsilon) octanoyl in position 27 is amidated

<400> 92  
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu  
1 5 10 15  
Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Xaa  
20 25

<210> 93  
<211> 29  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> VARIANT  
<222> 1  
<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly

<220>  
<221> VARIANT  
<222> 27  
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>  
<221> AMIDATION  
<222> 29  
<223> Gly in position 29 is amidated

<400> 93  
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu  
1 5 10 15  
Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Xaa Gly Gly  
20 25

<210> 94  
<211> 29  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> VARIANT  
<222> 1  
<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly

<220>  
<221> VARIANT  
<222> 27  
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>  
<221> AMIDATION  
<222> 29  
<223> Gly in position 29 is amidated

<400> 94  
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu



1	5	10	15
Glu	Ala	Val	Arg
	Leu	Phe	Ile
	Glu	Phe	Leu
	Lys	Asn	
20		25	

<210> 98  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 98
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 99  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 99
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 100  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 100
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu

1	5	10	15
Glu	Ala	Val	Arg
	Leu	Phe	Ile
		Glu	Trp
		Leu	Lys
		Asn	
20		25	

<210> 101  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
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<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 101
His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 102  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 102
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 103  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 103
His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu

1	5	10	15
Glu	Ala	Val	Arg
	Leu	Phe	Ile
		Glu	Trp
		Leu	Lys
			Asn
20		25	

<210> 104  
 <211> 28  
 <212> PRT  
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<220>  
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<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 104
Ala Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1                      5                      10                      15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20                      25

<210> 105  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 105
Ala Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1                      5                      10                      15
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20                      25

<210> 106  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
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<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 106
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu





1	5	10	15
Glu	Ala	Val	Arg
	Leu	Phe	Ile
	Glu	Phe	Leu
		Lys	Asn
	20	25	

<210> 110  
 <211> 28  
 <212> PRT  
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<220>  
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<220>  
 <221> VARIANT  
 <222> 6  
 <223> Xaa in position 6 stands for Nala

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 110
Ala Gly Asp Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1                      5                      10                      15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20                      25

<210> 111  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
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<220>  
 <221> VARIANT  
 <222> 6  
 <223> Xaa in position 6 stands for Nala

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 111
Ala Gly Asp Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1                      5                      10                      15
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20                      25

<210> 112  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
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<220>  
<221> AMIDATION  
<222> 28  
<223> Asn in position 28 is amidated

<400> 112  
Ala Gly Asp Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 113  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 28  
<223> Asn in position 28 is amidated

<400> 113  
Ala Gly Asp Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
20 25

<210> 114  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 28  
<223> Asn in position 28 is amidated

<400> 114  
Ala Gly Asp Gly Thr Phe Thr Ala Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
20 25

<210> 115  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 115

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ala	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5				10					15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn				
			20				25								

<210> 116

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 116

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Ala	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10					15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn				
			20				25								

<210> 117

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 117

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Ala	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5				10					15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn				
			20				25								

<210> 118

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 118

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Glu	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10						15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn				
		20					25								

<210> 119

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 119

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Glu	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5				10					15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn				
		20					25								

<210> 120

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 120

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Ala	Ser	Lys	Gln	Met	Glu	Glu
1				5				10						15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn				
		20					25								

<210> 121

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 121

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Ala	Ser	Lys	Gln	Leu	Glu	Glu
1				5				10						15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn				
			20				25								

<210> 122

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 stands for Pgly

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 122

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Xaa	Ser	Lys	Gln	Met	Glu	Glu
1				5				10						15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn				
			20				25								

<210> 123

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 stands for Pgly

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 123

Ala Gly Asp Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Leu Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

<210> 124  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 124  
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ala Lys Gln Met Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
 20 25

<210> 125  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 125  
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ala Lys Gln Leu Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

<210> 126  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 126

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Ala Gln Met Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
 20 25

<210> 127  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 127  
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Ala Gln Leu Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

<210> 128  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 128  
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Ala Met Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
 20 25

<210> 129  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 129



Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Ala Leu Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

<210> 130  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 130  
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Ala Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn  
 20 25

<210> 131  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 131  
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Ala Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn  
 20 25

<210> 132  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 14  
 <223> Xaa in position 14 stands for pGly

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 132

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Xaa	Glu	Glu
1				5					10					15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn				
			20					25							

<210> 133

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 14

<223> Xaa in position 14 stands for pGly

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 133

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Xaa	Glu	Glu
1				5					10					15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn				
			20					25							

<210> 134

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 134

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Ala	Glu
1				5					10					15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn				
			20					25							

<210> 135

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 135

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Ala	Glu
1				5				10					15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn				
		20					25								

<210> 136

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 136

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Ala
1				5				10					15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn				
		20					25								

<210> 137

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 137

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Ala
1				5				10					15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn				
		20					25								

<210> 138

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 138

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5					10					15	
Ala	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn				
			20					25							

<210> 139

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 139

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5					10					15	
Ala	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn				
			20					25							

<210> 140

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 140

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5					10					15	
Glu	Ala	Ala	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn				
			20					25							

<210> 141

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 141

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5				10						15	
Glu	Ala	Ala	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn				
			20				25								

<210> 142

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 142

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10						15	
Glu	Ala	Val	Ala	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn				
			20				25								

<210> 143

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 143

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5				10						15	
Glu	Ala	Val	Ala	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn				
			20				25								

<210> 144

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 144

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10						15	
Glu	Ala	Val	Arg	Ala	Phe	Ile	Glu	Trp	Leu	Lys	Asn				
		20					25								

<210> 145

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 145

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5				10						15	
Glu	Ala	Val	Arg	Ala	Phe	Ile	Glu	Phe	Leu	Lys	Asn				
		20					25								

<210> 146

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 22

<223> Xaa in position 22 stands for Nala

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 146

Ala	Gly	Asp	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10						15	
Glu	Ala	Val	Arg	Leu	Xaa	Ile	Glu	Trp	Leu	Lys	Asn				

20

25

<210> 147  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 22  
 <223> Xaa in position 22 stands for Nala

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 147  
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
   1                  5                  10                  15  
 Glu Ala Val Arg Leu Xaa Ile Glu Phe Leu Lys Asn  
                   20                  25

<210> 148  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 148  
 Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
   1                  5                  10                  15  
 Glu Ala Val Arg Leu Phe Val Glu Trp Leu Lys Asn  
                   20                  25

<210> 149  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Asn in position 28 is amidated

<400> 149

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Val Glu Phe Leu Lys Asn  
20 25

<210> 150

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 23

<223> Xaa in position 23 stands for tGly

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 150

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Xaa Glu Trp Leu Lys Asn  
20 25

<210> 151

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 23

<223> Xaa in position 23 stands for tGly

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 151

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Xaa Glu Phe Leu Lys Asn  
20 25

<210> 152

<211> 28



<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 28  
<223> Asn in position 28 is amidated

<400> 152  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Asp Trp Leu Lys Asn  
20 25

<210> 153  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 28  
<223> Asn in position 28 is amidated

<400> 153  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Asp Phe Leu Lys Asn  
20 25

<210> 154  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 28  
<223> Asn in position 28 is amidated

<400> 154  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Ala Leu Lys Asn  
20 25

<210> 155  
<211> 28

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 28  
<223> Asn in position 28 is amidated

<400> 155  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Ala Leu Lys Asn  
20 25

<210> 156  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 28  
<223> Asn in position 28 is amidated

<400> 156  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Ala Lys Asn  
20 25

<210> 157  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 28  
<223> Asn in position 28 is amidated

<400> 157  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Phe Ala Lys Asn  
20 25

<210> 158  
<211> 28

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 28  
<223> Asn in position 28 is amidated

<400> 158  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Ala Asn  
20 25

<210> 159  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 28  
<223> Asn in position 28 is amidated

<400> 159  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Ala Asn  
20 25

<210> 160  
<211> 28  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 28  
<223> Ala in position 28 is amidated

<400> 160  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Ala  
20 25

<210> 161  
<211> 28

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 28  
<223> Ala in position 28 is amidated

<400> 161  
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Ala  
20 25

<210> 162  
<211> 38  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 38  
<223> Pro in position 38 is amidated

<400> 162  
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro  
35

<210> 163  
<211> 38  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 38  
<223> Pro in position 38 is amidated

<400> 163  
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro

35

<210> 164  
<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 37  
<223> Pro in position 37 is amidated

<400> 164  
His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro  
35

<210> 165  
<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 36  
<223> Pro in position 36 is amidated

<400> 165  
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro  
35

<210> 166  
<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 36  
<223> Pro in position 36 is amidated

<400> 166  
 Ala Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Leu Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
 20 25 30  
 Ser Gly Ala Pro  
 35

<210> 167  
 <211> 35  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 35  
 <223> Ala in position 35 is amidated

<400> 167  
 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
 20 25 30  
 Ser Gly Ala  
 35

<210> 168  
 <211> 35  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 35  
 <223> Ala in position 35 is amidated

<400> 168  
 His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
 20 25 30  
 Ser Gly Ala  
 35

<210> 169  
 <211> 34  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 34  
<223> Gly in position 34 is amidated

<400> 169  
His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly

<210> 170  
<211> 33  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 33  
<223> Ser in position 33 is amidated

<400> 170  
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser

<210> 171  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> AMIDATION  
<222> 32  
<223> Ser in position 32 is amidated

<400> 171  
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

<210> 172  
<211> 32  
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 32

<223> Ser in position 32 is amidated

<400> 172

His	Gly	Ala	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5					10					15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	Gly	Gly	Pro	Ser
		20					25						30		

<210> 173

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 31

<223> Pro in position 31 is amidated

<400> 173

His	Gly	Glu	Ala	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5					10					15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly	Pro	
		20					25						30		

<210> 174

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 30

<223> Gly in position 30 is amidated

<400> 174

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Ala	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5					10					15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	Gly	Gly		
		20					25						30		

<210> 175

<211> 29

<212> PRT



<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 29

<223> Gly in position 29 is amidated

<400> 175

Ala	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5				10					15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Lys	Asn	Gly			
		20					25								

<210> 176

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 31, 36-38

<223> Xaa in positions 31, 36-38 stands for tPro

<220>

<221> AMIDATION

<222> 38

<223> tPro in position 38 is amidated

<400> 176

His	Gly	Ala	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10					15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Lys	Asn	Gly	Gly	Xaa	Ser
		20					25					30			
Ser	Gly	Ala	Xaa	Xaa	Xaa										
		35													

<210> 177

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 36-38

<223> Xaa in positions 36-38 stands for tPro

<220>

<221> AMIDATION

<222> 38  
<223> tPro in position 38 is amidated

<400> 177  
His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Xaa Xaa Xaa  
35

<210> 178  
<211> 37  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> VARIANT  
<222> 31, 36-37  
<223> Xaa in positions 31, 36-37 stands for Nme

<220>  
<221> AMIDATION  
<222> 37  
<223> Nme in position 37 is amidated

<400> 178  
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser  
20 25 30  
Ser Gly Ala Xaa Xaa  
35

<210> 179  
<211> 36  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> VARIANT  
<222> 31, 36  
<223> Xaa in position 31 and 36 stands for hPro

<220>  
<221> AMIDATION  
<222> 36  
<223> hPro in position 36 is amidated

<400> 179  
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu

1                      5                      10                      15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser  
                     20                      25                      30  
 Ser Gly Ala Xaa  
                     35

<210> 180  
 <211> 35  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 35  
 <223> Ala in position 35 is amidated

<400> 180  
 His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1                      5                      10                      15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
                     20                      25                      30  
 Ser Gly Ala  
                     35

<210> 181  
 <211> 30  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 30  
 <223> Gly in position 30 is amidated

<400> 181  
 His Gly Asp Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1                      5                      10                      15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly  
                     20                      25                      30

<210> 182  
 <211> 39  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> AMIDATION  
 <222> 39

<223> Ser in position 39 is amidated

<400> 182

Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 183

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 39

<223> Ser in position 39 is amidated

<400> 183

Ala Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 184

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 1

<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly

<220>

<221> VARIANT

<222> 26

<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> 27

<223> Asn in position 27 is amidated

<400> 184

Xaa Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu Glu

1	5	10	15
Ala	Val	Arg	Leu
	Phe	Ile	Glu
		Trp	Leu
		Xaa	Asn
20		25	

<210> 185  
 <211> 27  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa in position 1 stands for  
 4-Imidazolypropionyl-Gly

<220>  
 <221> VARIANT  
 <222> 26  
 <223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>  
 <221> AMIDATION  
 <222> 27  
 <223> Asn in position 27 is amidated

<400> 185
Xaa
Glu
Gly
Thr
Phe
Thr
Ser
Ala
Leu
Ser
Lys
Gln
Leu
Glu
Glu
Glu
1
5
10
15
Ala
Val
Arg
Leu
Phe
Ile
Glu
Phe
Leu
Xaa
Asn
20
25

<210> 186  
 <211> 29  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa in position 1 stands for  
 4-Imidazolypropionyl-Gly

<220>  
 <221> VARIANT  
 <222> 26  
 <223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>  
 <221> AMIDATION  
 <222> 29

<223> Gly in position 29 is amidated

<400> 186

Xaa	Glu	Gly	Thr	Phe	Thr	Ser	Ala	Leu	Ser	Lys	Gln	Met	Glu	Glu	Glu
1				5					10					15	
Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Xaa	Asn	Gly	Gly			
			20					25							

<210> 187

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 1

<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly

<220>

<221> VARIANT

<222> 26

<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> 29

<223> Gly in position 29 is amidated

<400> 187

Xaa	Glu	Gly	Thr	Phe	Thr	Ser	Ala	Leu	Ser	Lys	Gln	Leu	Glu	Glu	Glu
1				5					10					15	
Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Xaa	Asn	Gly	Gly			
			20					25							

<210> 188

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 1

<223> Xaa in position 1 stands for  
4-Imidazolylpropionyl-Gly

<220>

<221> VARIANT

<222> 27

<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>  
 <221> AMIDATION  
 <222> 27  
 <223> Lys-NH(epsilon) octanoyl in position 27 is amidated

<400> 188  
 Xaa Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu Glu  
 1 5 10 15  
 Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Xaa  
 20 25

<210> 189  
 <211> 27  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa in position 1 stands for  
 4-Imidazolylpropionyl-Gly

<220>  
 <221> VARIANT  
 <222> 27  
 <223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>  
 <221> AMIDATION  
 <222> 27  
 <223> Lys-NH(epsilon) octanoyl

<400> 189  
 Xaa Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu Glu  
 1 5 10 15  
 Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Xaa  
 20 25

<210> 190  
 <211> 29  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa in position 1 stands for  
 4-Imidazolylpropionyl-Gly

<220>  
 <221> VARIANT

<222> 27  
 <223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>  
 <221> AMIDATION  
 <222> 29  
 <223> Gly in position 29 is amidated

<400> 190  
 Xaa Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu Glu  
 1 5 10 15  
 Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Xaa Gly Gly  
 20 25

<210> 191  
 <211> 29  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa in position 1 stands for  
 4-Imidazolylpropionyl-Gly

<220>  
 <221> VARIANT  
 <222> 27  
 <223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>  
 <221> AMIDATION  
 <222> 29  
 <223> Gly in position 29 is amidated

<400> 191  
 Xaa Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu Glu  
 1 5 10 15  
 Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Xaa Gly Gly  
 20 25

<210> 192  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 27  
 <223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl



<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 192

Ala	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10						15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Xaa	Asn				
			20				25								

<210> 193

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 27

<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> 28

<223> Asn in position 28 is amidated

<400> 193

Ala	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5				10						15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Xaa	Asn				
			20				25								

<210> 194

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 27

<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> 30

<223> Gly in position 30 is amidated

<400> 194

Ala	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10						15	
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Xaa	Asn	Gly	Gly		

20

25

30

<210> 195  
 <211> 30  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 27  
 <223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>  
 <221> AMIDATION  
 <222> 30  
 <223> Gly in position 30 is amidated

<400> 195  
 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Xaa Asn Gly Gly  
 20 25 30

<210> 196  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 28  
 <223> Xaa in position 28 stands for Lys-NH(epsilon) octanoyl

<220>  
 <221> AMIDATION  
 <222> 28  
 <223> Lys-NH(epsilon) octanoyl in position 28 is amidated

<400> 196  
 Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Xaa  
 20 25

<210> 197  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 28

<223> Xaa in position 28 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> 28

<223> Lys-NH(epsilon) octanoyl in position 28 is amidated

<400> 197

Ala	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5				10					15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Asn	Xaa				
		20					25								

<210> 198

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 28

<223> Xaa in position 28 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> 30

<223> Gly in position 30 is amidated

<400> 198

Ala	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Met	Glu	Glu
1				5				10					15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Asn	Xaa	Gly	Gly		
		20					25					30			

<210> 199

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 28

<223> Xaa in position 28 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> 30

<223> Gly in position 30 is amidated

<400> 199

Ala	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Lys	Gln	Leu	Glu	Glu
1				5				10					15		
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Phe	Leu	Asn	Xaa	Gly	Gly		
		20					25						30		

<210> 200

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 1

<223> Xaa in position 1 stands for His, Arg or Tyr

<220>

<221> VARIANT

<222> 2

<223> Xaa in position 2 stands for Ser, Gly, Ala or Thr

<220>

<221> VARIANT

<222> 3

<223> Xaa in position 3 stands for Asp or Glu

<220>

<221> VARIANT

<222> 5

<223> Xaa in position 5 stands for Ala or Thr

<220>

<221> VARIANT

<222> 6

<223> Xaa in position 6 stands for Ala, Phe, Tyr or  
naphthylalanine

<220>

<221> VARIANT

<222> 7

<223> Xaa in position 7 stands for Thr or Ser

<220>

<221> VARIANT

<222> 8

<223> Xaa in position 8 stands for Ala, Ser or Thr

<220>

<221> VARIANT

<222> 9

<223> Xaa in position 9 stands for Asp or Glu

<220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa in position 10 stands for Ala, Leu, Ile, Val,  
 pentylglycine or Met

<220>  
 <221> VARIANT  
 <222> 11  
 <223> Xaa in position 11 stands for Ala or Ser

<220>  
 <221> VARIANT  
 <222> 12  
 <223> Xaa in position 12 stands for Ala or Lys

<220>  
 <221> VARIANT  
 <222> 13  
 <223> Xaa in position 13 stands for Ala or Gln

<220>  
 <221> VARIANT  
 <222> 14  
 <223> Xaa in position 14 stands for Ala, Leu, Ile,  
 pentylglycine, Val or Met

<220>  
 <221> VARIANT  
 <222> (15)...(17)  
 <223> Xaa in positions 15-17 stands for Ala or Glu

<220>  
 <221> VARIANT  
 <222> 19  
 <223> Xaa in position 19 stands for Ala or Val

<220>  
 <221> VARIANT  
 <222> 20  
 <223> Xaa in position 20 stands for Ala or Arg

<220>  
 <221> VARIANT  
 <222> 21  
 <223> Xaa in position 21 stands for Ala or Leu

<220>  
 <221> VARIANT  
 <222> 22  
 <223> Xaa in position 22 stands for Ala, Phe, Tyr  
 or naphthylalanine

<220>  
 <221> VARIANT  
 <222> 23  
 <223> Xaa in position 23 stands for Ile, Val, Leu,

pentylglycine, tert-butylglycine or Met

<220>

<221> VARIANT

<222> 24

<223> Xaa in position stands for Ala, Trp, Phe, Tyr  
or naphthylalanine

<220>

<221> VARIANT

<222> 25

<223> Xaa in position stands for Ala, Trp Phe Tyr  
or naphthylalanine

<220>

<221> VARIANT

<222> 26

<223> Xaa in position 26 stands for Ala or Leu

<220>

<221> VARIANT

<222> 27

<223> Xaa in position 27 stands for Ala or Lys

<220>

<221> VARIANT

<222> 28

<223> Xaa in position 28 stands for Ala or Asn and  
is optionally amidated

<400> 200

Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
20 25

<210> 201

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> MOD\_RES

<222> 1

<223> Amidation, Gly at position 1 is optionally  
amidated in the case that residues in positions  
2-10 are absent

<220>

<221> MOD\_RES

<222> 2

<223> Amidation, Gly at position 2 is optionally  
amidated in the case that residues in position  
3-10 are absent

<220>  
 <221> MOD\_RES  
 <222> 3  
 <223> Xaa is selected from Pro, homoproline, 3Hyp, 4Hyp, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine and optionally amidated in the case that residues in positions 4-10 are absent

<220>  
 <221> MOD\_RES  
 <222> 4  
 <223> Amidation, Ser at position 4 is optionally amidated in the case that residues in positions 5-10 are absent

<220>  
 <221> MOD\_RES  
 <222> 5  
 <223> Amidation, Ser at position 5 is optionally amidated in the case that residues in positions 6-10 are absent

<220>  
 <221> MOD\_RES  
 <222> 6  
 <223> Amidation, Gly at position 6 is optionally amidated in the case that residues in positions 7-10 are absent

<220>  
 <221> MOD\_RES  
 <222> 7  
 <223> Amidation, Ala at position 7 is optionally amidated in the case that residues in positions 8-10 are absent

<220>  
 <221> MOD\_RES  
 <222> 8  
 <223> Xaa is selected from Pro, homoproline, 3Hyp, 4Hyp, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine and is optionally amidated in the case that residues in positions 9-10 are absent

<220>  
 <221> MOD\_RES  
 <222> 9  
 <223> Xaa is selected from Pro, homoproline, 3Hyp, 4Hyp, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine and is optionally amidated in the case that residues in position 10 are absent

<220>  
 <221> MOD\_RES  
 <222> 10

<223> Xaa is selected from Pro, homoproline, 3Hyp, 4Hyp, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine and is optionally amidated

<400> 201

Gly Gly Xaa Ser Ser Gly Ala Xaa Xaa Xaa  
1 5 10

<210> 202

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 1

<223> Xaa in position 1 stands for His, Arg, Tyr, Ala, Norval, Val or Norleu

<220>

<221> VARIANT

<222> 2

<223> Xaa in position 2 stands for Ser, Gly, Ala or Thr

<220>

<221> VARIANT

<222> 3

<223> Xaa in position 3 stands for Ala, Asp or Glu

<220>

<221> VARIANT

<222> 4

<223> Xaa in position 4 stands for Ala, Norval, Val, Norleu or Gly

<220>

<221> VARIANT

<222> 5

<223> Xaa in position 5 stands for Ala or Thr

<220>

<221> VARIANT

<222> 6

<223> Xaa in position 6 stands for Phe, Tyr or naphthylalanine

<220>

<221> VARIANT

<222> 7

<223> Xaa in position 7 stands for Thr or Ser

<220>

<221> VARIANT

<222> 8



<223> Xaa in position 8 stands for Ala, Ser or Thr

<220>

<221> VARIANT

<222> 9

<223> Xaa in position 9 stands for Ala, Norval, Val  
Norleu, Asp or Glu

<220>

<221> VARIANT

<222> 10

<223> Xaa in position 10 stands for Ala, Leu Ile, Val,  
pentylglycine or Met

<220>

<221> VARIANT

<222> 11

<223> Xaa in position 11 stands for Ala or Ser

<220>

<221> VARIANT

<222> 12

<223> Xaa in position 12 stands for Ala or Lys

<220>

<221> VARIANT

<222> 13

<223> Xaa in position 13 stands for Ala or Gln

<220>

<221> VARIANT

<222> 14

<223> Xaa in position 14 stands for Ala, Leu, Ile,  
pentylglycine, Val or Met

<220>

<221> VARIANT

<222> (15)...(17)

<223> Xaa in positions 15-17 stands for Ala or Glu

<220>

<221> VARIANT

<222> 19

<223> Xaa in position 19 stands for Ala or Val

<220>

<221> VARIANT

<222> 20

<223> Xaa in position 20 stands for Ala or Arg

<220>

<221> VARIANT

<222> 21

<223> Xaa in position 21 stands for Ala or Leu

<220>

<221> VARIANT

<222> 22  
 <223> Xaa in position 22 stands for Phe, Tyr or  
 naphthylalanine  
  
 <220>  
 <221> VARIANT  
 <222> 23  
 <223> Xaa in position 23 stands for Ile, Val, Leu,  
 pentylglycine, tert-butylglycine or Met  
  
 <220>  
 <221> VARIANT  
 <222> 24  
 <223> Xaa in position 24 stands for Ala, Glu or Asp

<220>  
 <221> VARIANT  
 <222> 25  
 <223> Xaa in position 25 stands for Ala, Trp, Phe, Tyr or  
 naphthylalanine

<220>  
 <221> VARIANT  
 <222> 26  
 <223> Xaa in position 26 stands for Ala or Leu

<220>  
 <221> VARIANT  
 <222> 27  
 <223> Xaa in position 27 stands for Ala or Lys

<220>  
 <221> VARIANT  
 <222> 28  
 <223> Xaa in position 28 stands for Ala or Asn and  
 is optionally amidated

<400> 202  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15  
 Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25

<210> 203  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> MOD\_RES  
 <222> 1  
 <223> Amidation, Gly at position 1 is optionally amidated in  
 the case that residues in positions 2-11 are absent

<220>  
<221> MOD\_RES  
<222> 2  
<223> Amidation, Gly at position 2 is optionally amidated  
in the case that residues in positions 3-11 are absent

<220>  
<221> MOD\_RES  
<222> 3  
<223> Xaa is selected from Pro, homoproline, 3Hyp, 4Hyp,  
thioprolin, N-alkylglycine, N-alkylpentylglycine  
or N-alkylalanine and is optionally in the case  
that residues in the positions 4-11 are absent

<220>  
<221> MOD\_RES  
<222> 4  
<223> Amidation, Ser at position 4 is optional and  
optionally amidated in the case that residues in  
positions 5-11 are absent

<220>  
<221> MOD\_RES  
<222> 5  
<223> Amidation, Ser at position 5 is optional and  
optionally amidated in the case that residues in  
positions 6-11 are absent

<220>  
<221> MOD\_RES  
<222> 6  
<223> Amidation, Gly at position 6 is optional and  
optionally amidated in the case that residues in  
positions 7-11 are absent

<220>  
<221> MOD\_RES  
<222> 7  
<223> Amidation, Ala at position 7 is optional and  
optionally amidated in the case that residues in  
positions 8-11 are absent

<220>  
<221> MOD\_RES  
<222> 8  
<223> Xaa is selected from Pro, homoproline, 3Hyp, 4Hyp,  
thioprolin, N-alkylglycine, N-alkylpentylglycine  
or N-alkylalanine and is optionally amidated in  
the case that residues in positions 9-11 are  
absent

<220>  
<221> MOD\_RES  
<222> 9  
<223> Xaa is selected from Pro, homoproline, 3Hyp, 4Hyp,  
thioprolin, N-alkylglycine, N-alkylpentylglycine

or N-alkylalanine and is optionally amidated in the case that residues in positions 10-11 are absent

<220>

<221> MOD\_RES

<222> 10

<223> Xaa is selected from Pro, homoproline, 3Hyp, 4Hyp, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine and is optionally amidated in the case that residues in position 11 are absent

<220>

<221> MOD\_RES

<222> 11

<223> Xaa is selected from Pro, homoproline, 3Hyp, 4Hyp, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine and is optionally amidated

<400> 203

Gly Gly Xaa Ser Ser Gly Ala Xaa Xaa Xaa Xaa  
1 5 10

<210> 204

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 1

<223> Xaa in position 1 stands for His or Arg

<220>

<221> VARIANT

<222> 2

<223> Xaa in position 2 stands for Gly or Ala

<220>

<221> VARIANT

<222> 3

<223> Xaa in position 3 stands for Asp or Glu

<220>

<221> VARIANT

<222> 5

<223> Xaa in position 5 stands for Ala or Thr

<220>

<221> VARIANT

<222> 6

<223> Xaa in position 6 stands for Ala, Phe or naphthylalanine

<220>  
 <221> VARIANT  
 <222> 7  
 <223> Xaa in position 7 stands for Thr or Ser

<220>  
 <221> VARIANT  
 <222> 8  
 <223> Xaa in position 8 stands for Ala, Ser or Thr

<220>  
 <221> VARIANT  
 <222> 9  
 <223> Xaa in position 9 stands for Asp or Glu

<220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa in position 10 stands for Ala, Leu or  
 pentylglycine

<220>  
 <221> VARIANT  
 <222> 11  
 <223> Xaa in position 11 stands for Ala or Ser

<220>  
 <221> VARIANT  
 <222> 12  
 <223> Xaa in position 12 stands for Ala or Lys

<220>  
 <221> VARIANT  
 <222> 13  
 <223> Xaa in position 13 stands for Ala or Gln

<220>  
 <221> VARIANT  
 <222> 14  
 <223> Xaa in position 14 stands for Ala, Leu or  
 pentylglycine

<220>  
 <221> VARIANT  
 <222> (15)...(17)  
 <223> Xaa in positions 15-17 stands for Ala or Glu

<220>  
 <221> VARIANT  
 <222> 19  
 <223> Xaa in position 19 stands for Ala or Val

<220>  
 <221> VARIANT  
 <222> 20  
 <223> Xaa in position 20 stands for Ala or Arg

<220>  
 <221> VARIANT  
 <222> 21  
 <223> Xaa in position 21 stands for Ala or Leu

<220>  
 <221> VARIANT  
 <222> 22  
 <223> Xaa in position 22 stands for Phe or  
 naphthylalanine

<220>  
 <221> VARIANT  
 <222> 23  
 <223> Xaa in position 23 stands for Ile, Val or  
 tert-butylglycine

<220>  
 <221> VARIANT  
 <222> 24  
 <223> Xaa in position 24 stands for Ala, Glu or Asp

<220>  
 <221> VARIANT  
 <222> 25  
 <223> Xaa in position 25 stands for Ala, Trp, or Phe

<220>  
 <221> VARIANT  
 <222> 26  
 <223> Xaa in position 26 stands for Ala or Leu

<220>  
 <221> VARIANT  
 <222> 27  
 <223> Xaa in position 27 stands for Ala or Lys

<220>  
 <221> VARIANT  
 <222> 28  
 <223> Xaa in position 28 stands for Ala or Asn and is  
 optionally amidated

<400> 204  
 Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15  
 Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25

<210> 205  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa in position 1 stands for His or Ala

<220>  
 <221> VARIANT  
 <222> 2  
 <223> Xaa in position 2 stands for Gly or Ala

<220>  
 <221> VARIANT  
 <222> 3  
 <223> Xaa in position 3 stands for Ala, Asp or Glu

<220>  
 <221> VARIANT  
 <222> 4  
 <223> Xaa in position 4 stands for Ala or Gly

<220>  
 <221> VARIANT  
 <222> 5  
 <223> Xaa in position 5 stands for Ala or Thr

<220>  
 <221> VARIANT  
 <222> 6  
 <223> Xaa in position 6 stands for Phe or  
       naphthylalanine

<220>  
 <221> VARIANT  
 <222> 7  
 <223> Xaa in position 7 stands for Thr or Ser

<220>  
 <221> VARIANT  
 <222> 8  
 <223> Xaa in position 8 stands for Ala, Ser or Thr

<220>  
 <221> VARIANT  
 <222> 9  
 <223> Xaa in position 9 stands for Ala, Asp or Glu

<220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa in position 10 stands for Ala, Leu or  
       pentylglycine

<220>  
 <221> VARIANT  
 <222> 11  
 <223> Xaa in position 11 stands for Ala or Ser

<220>  
 <221> VARIANT  
 <222> 12  
 <223> Xaa in position 12 stands for Ala or Lys

<220>  
 <221> VARIANT  
 <222> 13  
 <223> Xaa in position 13 stands for Ala or Gln

<220>  
 <221> VARIANT  
 <222> 14  
 <223> Xaa in position 14 stands for Ala, Leu, Met or  
 pentylglycine

<220>  
 <221> VARIANT  
 <222> (15)...(17)  
 <223> Xaa in positions 15-17 stands for Ala or Glu

<220>  
 <221> VARIANT  
 <222> 19  
 <223> Xaa in position 19 stands for Ala or Val

<220>  
 <221> VARIANT  
 <222> 20  
 <223> Xaa in position 20 stands for Ala or Arg

<220>  
 <221> VARIANT  
 <222> 21  
 <223> Xaa in position 21 stands for Ala or Leu

<220>  
 <221> VARIANT  
 <222> 22  
 <223> Xaa in position 22 stands for Phe or naphthylalanine

<220>  
 <221> VARIANT  
 <222> 23  
 <223> Xaa in position 23 stands for Ile, Val or tert-butylglycine

<220>  
 <221> VARIANT  
 <222> 24  
 <223> Xaa in position 24 stands for Ala, Glu or Asp

<220>  
 <221> VARIANT  
 <222> 25  
 <223> Xaa in position 25 stands for Ala, Trp or Phe



<220>  
 <221> VARIANT  
 <222> 26  
 <223> Xaa in position 26 stands for Ala or Leu

<220>  
 <221> VARIANT  
 <222> 27  
 <223> Xaa in position 27 stands for Ala or Lys

<220>  
 <221> VARIANT  
 <222> 28  
 <223> Xaa in position 28 stands for Ala or Asn which is optionally amidated

<400> 205  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15  
 Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25

<210> 206  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> MOD\_RES  
 <222> 1  
 <223> Amidation, Gly at position 1 is optional and optionally amidated in the case that residues in positions 2-11 are absent

<220>  
 <221> MOD\_RES  
 <222> 2  
 <223> Amidation, Gly at position 2 is optional and optionally amidated in the case that residues in positions 3-11 are absent

<220>  
 <221> MOD\_RES  
 <222> 3  
 <223> Xaa is selected from Pro, homoproline, thioproline or N-methylalalanine and is optionally amidated in the case that residues in position 4-11 are absent

<220>  
 <221> MOD\_RES  
 <222> 4  
 <223> Amidation, Ser at position 4 is optional and optionally amidated in the case that residues in positions 5-11 are absent

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<220>
<221> MOD_RES
<222> 5
<223> Amidation, Ser at position 5 is optional and
        optionally amidated in the case that residues in
        positions 6-11 are absent

<220>
<221> MOD_RES
<222> 6
<223> Amidation, Gly at position 6 is optional and
        optionally amidated in the case that residues in
        positions 7-11 are absent

<220>
<221> MOD_RES
<222> 7
<223> Amidation, Ala at position 7 is optional and
        optionally amidated in the case that residues in
        positions 8-11 are absent

<220>
<221> MOD_RES
<222> 8
<223> Xaa is selected from Pro, homoproline, thioproline
        or N-methylalalanine and is optionally amidated in
        the case that residues in position 9-11 are absent

<220>
<221> MOD_RES
<222> 9
<223> Xaa is selected from Pro, homoproline, thioproline
        or N-methylalalanine and is optionally amidated in
        the case that residues in position 10-11 are
        absent

<220>
<221> MOD_RES
<222> 10
<223> Xaa is selected from Pro, homoproline, thioproline
        or N-methylalalanine and is optionally amidated in
        the case that residues in position 10-11 are
        absent

<220>
<221> MOD_RES
<222> 11
<223> Ser at position 11 is optional and is optionally
        amidated

<400> 206
Gly Gly Xaa Ser Ser Gly Ala Xaa Xaa Xaa Ser
1           5           10

<210> 207
<211> 27

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<212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Synthetic Amino Acid Sequence  
  
 <220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa in position 1 stands for His, Arg, Tyr or  
       4-Imidazopropionyl  
  
 <220>  
 <221> VARIANT  
 <222> 2  
 <223> Xaa in position 2 stands for Ser, Gly, Ala or Thr  
  
 <220>  
 <221> VARIANT  
 <222> 3  
 <223> Xaa in position 3 stands for Asp or Glu  
  
 <220>  
 <221> VARIANT  
 <222> 5  
 <223> Xaa in position 5 stands for Ala or Thr  
  
 <220>  
 <221> VARIANT  
 <222> 6  
 <223> Xaa in position 6 stands for Ala, Phe, Tyr or  
       naphthylalanine  
  
 <220>  
 <221> VARIANT  
 <222> 7  
 <223> Xaa in position 7 stands for Thr and Ser  
  
 <220>  
 <221> VARIANT  
 <222> 8  
 <223> Xaa in position 8 stands for Ala, Ser or Thr  
  
 <220>  
 <221> VARIANT  
 <222> 9  
 <223> Xaa in position 9 stands for Asp or Glu  
  
 <220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa in position 10 stands for Ala, leu, Ile, Val  
       pentylglycine or Met  
  
 <220>  
 <221> VARIANT  
 <222> 11

<223> Xaa in position 11 stands for Ala or Ser  
  
 <220>  
 <221> VARIANT  
 <222> 12  
 <223> Xaa in position 12 stands for Ala or Lys  
  
 <220>  
 <221> VARIANT  
 <222> 13  
 <223> Xaa in position 13 stands for Ala or Gln  
  
 <220>  
 <221> VARIANT  
 <222> 14  
 <223> Xaa in position 14 stands for Ala, Leu, Ile,  
 pentylglycine, Val or Met  
  
 <220>  
 <221> VARIANT  
 <222> (15)...(17)  
 <223> Xaa in positions 15-17 stands for Ala or Glu  
  
 <220>  
 <221> VARIANT  
 <222> 19  
 <223> Xaa in position 19 stands for Ala or Val  
  
 <220>  
 <221> VARIANT  
 <222> 20  
 <223> Xaa in position 20 stands for Ala or Arg  
  
 <220>  
 <221> VARIANT  
 <222> 21  
 <223> Xaa in position 21 stands for Ala, Leu or  
 Lys-NH<sub>3</sub>-R where R is Lys, Arg, C1-C10 straight  
 chain or branched alkyl or cycloalkylalkanoyl  
  
 <220>  
 <221> VARIANT  
 <222> 22  
 <223> Xaa in position 22 stands for Phe, Tyr or  
 naphthylalanine  
  
 <220>  
 <221> VARIANT  
 <222> 23  
 <223> Xaa in position 23 stands for Ile, Val Leu,  
 pentylglycine, tert-butylglycine or Met  
  
 <220>  
 <221> VARIANT  
 <222> 24  
 <223> Xaa in position 24 stands for Ala, Glu or Asp

<220>  
 <221> VARIANT  
 <222> 25  
 <223> Xaa in position 25 stands for Ala, Trp, Phe, Tyr  
 or naphthylalanine

<220>  
 <221> VARIANT  
 <222> 26  
 <223> Xaa in position 26 stands for Ala or Leu

<220>  
 <221> VARIANT  
 <222> 27  
 <223> Xaa in position stands for Lys Asn, Asn Lys,  
 Lys-NH3-R where R is Lys, Arg, C1-C10 straight  
 chain or branched alkanoyl or cycloalkylalkanoyl  
 and is optionally amidated

<400> 207  
 Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15  
 Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25

<210> 208  
 <211> 27  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa in position 1 stands for His, Arg, Tyr, Ala,  
 Norval, Val, Norleu or 4-Imidazopropionyl

<220>  
 <221> VARIANT  
 <222> 2  
 <223> Xaa in position 2 stands for Ser, Gly, Ala or Thr

<220>  
 <221> VARIANT  
 <222> 3  
 <223> Xaa in position 3 stands for Ala, Asp or Glu

<220>  
 <221> VARIANT  
 <222> 4  
 <223> Xaa in position 4 stands for Ala, Norval, Val,  
 Norleu or Gly

<220>  
 <221> VARIANT  
 <222> 5  
 <223> Xaa in position 5 stands for Ala or Thr

<220>  
 <221> VARIANT  
 <222> 6  
 <223> Xaa in position 6 stands for Phe, Tyr or  
 naphthylalanine

<220>  
 <221> VARIANT  
 <222> 7  
 <223> Xaa in position 7 stands for Thr or Ser

<220>  
 <221> VARIANT  
 <222> 8  
 <223> Xaa in position 8 stands for Ala, Ser or Thr

<220>  
 <221> VARIANT  
 <222> 9  
 <223> Xaa in position 9 stands for Ala, Norval, Val,  
 Norleu, Asp or Glu

<220>  
 <221> VARIANT  
 <222> 10  
 <223> Xaa in position 10 stands for Ala, Leu, Ile, Val,  
 pentylglycine or Met

<220>  
 <221> VARIANT  
 <222> 11  
 <223> Xaa in position 11 stands for Ala or Ser

<220>  
 <221> VARIANT  
 <222> 12  
 <223> Xaa in position 12 stands for Ala or Lys

<220>  
 <221> VARIANT  
 <222> 13  
 <223> Xaa in position 13 stands for Ala or Gln

<220>  
 <221> VARIANT  
 <222> 14  
 <223> Xaa in position 14 stands for Ala, Leu, Ile,  
 pentylglycine, Val or Met

<220>  
 <221> VARIANT

<222> (15)...(17)  
 <223> Xaa in positions 15-17 stands for Ala or Glu  
  
 <220>  
 <221> VARIANT  
 <222> 19  
 <223> Xaa in position 19 stands for Ala or Val  
  
 <220>  
 <221> VARIANT  
 <222> 20  
 <223> Xaa in position 20 stands for Ala or Arg  
  
 <220>  
 <221> VARIANT  
 <222> 21  
 <223> Xaa in position 21 stands for Ala, Leu or Lys-NH3-R  
       where R is Lys, Arg, C1-C10 straight chain or branched  
       alkanoyl or cycloalyleyl-alkanoyl  
  
 <220>  
 <221> VARIANT  
 <222> 22  
 <223> Xaa in position 22 stands for Phe, Tyr or  
       naphthylalanine  
  
 <220>  
 <221> VARIANT  
 <222> 23  
 <223> Xaa in position 23 stands for Ile, Val, Leu,  
       pentylglycine, tert-butylglycine or Met  
  
 <220>  
 <221> VARIANT  
 <222> 24  
 <223> Xaa in position 24 stands for Ala, Glu or Asp  
  
 <220>  
 <221> VARIANT  
 <222> 25  
 <223> Xaa in position Ala, trp, Phe Tyr or  
       naphthylalanine  
  
 <220>  
 <221> VARIANT  
 <222> 26  
 <223> Xaa in position 26 stands for Ala or Leu  
  
 <220>  
 <221> VARIANT  
 <222> 27  
 <223> Xaa in position 27 stands for Lys Asn, Asn Lys,  
       Lys-NH3-R Asn, Asn Lys-NH3-R, Lys-NH3-R Ala, Ala Lys-NH3-R  
       where R is Lys, Arg, C1-C10 straight chain or branched  
       alkanoyl or cycloalkylalknoyl and is optionally amidated

<400> 208  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15  
 Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25

<210> 209  
 <211> 39  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> VARIANT  
 <222> 1  
 <223> Xaa in position 1 stands for His, Arg or Tyr

<220>  
 <221> VARIANT  
 <222> 2  
 <223> Xaa in position 2 stands for Ser, Gly, Ala or Thr

<220>  
 <221> VARIANT  
 <222> 3, 9  
 <223> Xaa in position 3 stands for Asp or Glu

<220>  
 <221> VARIANT  
 <222> 6  
 <223> Xaa in position 6 stands for Phe, Tyr or  
 naphthalanine

<220>  
 <221> VARIANT  
 <222> 7, 8  
 <223> Xaa in position 7 stands for Thr or Ser

<220>  
 <221> VARIANT  
 <222> 10, 14  
 <223> Xaa in position 10 and 14 stands for Leu, Ile, Val  
 pentylglycine or Met

<220>  
 <221> VARIANT  
 <222> 22  
 <223> Xaa in position 22 stands for Phe, Tyr or  
 naphthalanine

<220>  
 <221> VARIANT  
 <222> 23  
 <223> Xaa in position 23 stands for Ile, Val, Leu,



pentylglycine, tert-butylglycine or Met

<220>

<221> VARIANT

<222> 24

<223> Xaa in position 24 stands for Glu or Asp

<220>

<221> VARIANT

<222> 25

<223> Xaa in position 25 stands for Trp, Phe, Tyr or  
naphthylalanine

<220>

<221> VARIANT

<222> 31, 36-38

<223> Xaa in positions 31, 36-38 is selected from Pro,  
homoproline, 3Hyp, 4Hyp, thioproline, N-alkylglycine,  
N-alkylpentylglycine or N-alkylalanine

<220>

<221> VARIANT

<222> 39

<223> Xaa in position 39 stands for Ser, Thr or Tyr and  
is optionally amidated

<400> 209

Xaa	Xaa	Xaa	Gly	Thr	Xaa	Xaa	Xaa	Xaa	Xaa	Ser	Lys	Gln	Xaa	Glu	Glu
1				5				10					15		
Glu	Ala	Val	Arg	Leu	Xaa	Xaa	Xaa	Xaa	Leu	Lys	Asn	Gly	Gly	Xaa	Ser
			20					25					30		
Ser	Gly	Ala	Xaa	Xaa	Xaa	Xaa									
			35												

<210> 210

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> 1

<223> Xaa in position 1 stands for His, Arg, Tyr or  
4-Imidazopropionyl

<220>

<221> VARIANT

<222> 2

<223> Xaa in position 2 stands for Ser, Gly, Ala or Thr

<220>

<221> VARIANT

<222> 3, 9

<223> Xaa in position 3 stands for Asp or Glu

<220>  
 <221> VARIANT  
 <222> 6  
 <223> Xaa in position 6 stands for Phe, Tyr or  
 naphthylalanine

<220>  
 <221> VARIANT  
 <222> 7, 8  
 <223> Xaa in positions 7-8 stands for Thr or Ser

<220>  
 <221> VARIANT  
 <222> 10, 14  
 <223> Xaa in positions 10 and 14 stands for Leu, Ile,  
 Val, pentylglycine or Met

<220>  
 <221> VARIANT  
 <222> 22  
 <223> Xaa in position 22 stands for Phe, Tyr or  
 naphthylalanine

<220>  
 <221> VARIANT  
 <222> 23  
 <223> Xaa in position 23 stands for Ile, Val, Leu,  
 pentylglycine, tert-butylglycine or Met

<220>  
 <221> VARIANT  
 <222> 24  
 <223> Xaa in position 24 stands for Glu or Asp

<220>  
 <221> VARIANT  
 <222> 25  
 <223> Xaa in position 25 stands for Trp, Phe, Tyr or  
 naphthylalanine

<220>  
 <221> VARIANT  
 <222> 27  
 <223> Xaa in position 27 stands for Lys Asn, Asn Lys,  
 Lys-NH(epsilon)-R Asn, Asn Lys-NH3-R where R is Lys,  
 Arg, C1-C10 straight chain or branched alkanoyl or  
 cycloalkylalkanoyl

<220>  
 <221> VARIANT  
 <222> 30, 35-37  
 <223> Xaa in positions 30, 35-37 are selected from Pro,  
 homoproline, 3Hyp, 4Hyp, thioproline,  
 N-alkylglycine, N-alkylpentylglycine or  
 N-alkylalanine

<220>  
 <221> VARIANT  
 <222> 39  
 <223> Xaa in position 38 stands for Ser, Thr or Tyr and  
 is optionally amidated

<400> 210  
 Xaa Xaa Xaa Gly Thr Xaa Xaa Xaa Xaa Xaa Ser Lys Gln Xaa Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Xaa Xaa Xaa Xaa Leu Xaa Gly Gly Xaa Ser Ser  
 20 25 30  
 Gly Ala Xaa Xaa Xaa Xaa  
 35

<210> 211  
 <211> 39  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> MOD\_RES  
 <222> 12  
 <223> Lys in position 12 is PEGylated

<220>  
 <221> AMIDATION  
 <222> 39  
 <223> Ser in position 39 is amidated

<400> 211  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
 20 25 30  
 Ser Gly Ala Pro Pro Pro Ser  
 35

<210> 212  
 <211> 39  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> MOD\_RES  
 <222> 27  
 <223> Lys at position 27 is PEGylated

<220>  
 <221> AMIDATION  
 <222> 39

<223> Ser in position 39 is amidated

<400> 212

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 213

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> MOD\_RES

<222> 2

<223> Lys at position 2 is PEGylated

<220>

<221> AMIDATION

<222> 39

<223> Ser in position 39 is amidated

<400> 213

His Lys Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 214

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> MOD\_RES

<222> 5

<223> Lys in position 5 is PEGylated

<220>

<221> AMIDATION

<222> 39

<223> Ser in position 39 is amidated

<400> 214

His Gly Glu Gly Lys Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 215  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> 8  
<223> Lys in position 8 is PEGylated

<220>  
<221> AMIDATION  
<222> 39  
<223> Ser in position 39 is amidated

<400> 215  
His Gly Glu Gly Thr Phe Thr Lys Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 216  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> 10  
<223> Lys in position 10 is PEGylated

<220>  
<221> AMIDATION  
<222> 39  
<223> Ser in position 39 is amidated

<400> 216  
His Gly Glu Gly Thr Phe Thr Ser Asp Lys Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 217  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> 11  
<223> Lys in position 11 is PEGylated

<220>  
<221> AMIDATION  
<222> 39  
<223> Ser in position 39 is amidated

<400> 217  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Lys Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 218  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> 13  
<223> Lys in position 13 is PEGylated

<220>  
<221> AMIDATION  
<222> 39  
<223> Ser in position 39 is amidated

<400> 218  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Lys Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 219  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> MOD\_RES

<222> 16

<223> Lys in position 16 is PEGylated

<220>

<221> AMIDATION

<222> 39

<223> Ser in position 39 is amidated

<400> 219

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Lys  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 220

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> MOD\_RES

<222> 17

<223> Lys in position 17 is PEGylated

<220>

<221> AMIDATION

<222> 39

<223> Ser in position 39 is amidated

<400> 220

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Lys Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 221

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> MOD\_RES

<222> 19  
<223> Lys in position 19 is PEGylated

<220>  
<221> AMIDATION  
<222> 39  
<223> Ser in position 39 is amidated

<400> 221  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Lys Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 222  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> 21  
<223> Lys in position 21 is PEGylated

<220>  
<221> AMIDATION  
<222> 39  
<223> Ser in position 39 is amidated

<400> 222  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Lys Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 223  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> 24  
<223> Lys in position 24 is PEGylated

<220>  
<221> AMIDATION



<222> 39  
<223> Ser in position 39 is amidated

<400> 223  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Lys Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 224  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> 25  
<223> Lys in position 25 is PEGylated

<220>  
<221> AMIDATION  
<222> 39  
<223> Ser in position 39 is amidated

<400> 224  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Lys Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 225  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> 28  
<223> Lys in position 28 is PEGylated

<220>  
<221> AMIDATION  
<222> 39  
<223> Ser in position 39 is amidated

<400> 225  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu

1                      5                      10                      15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Lys Gly Gly Pro Ser  
                     20                      25                      30  
 Ser Gly Ala Pro Pro Pro Ser  
                     35

<210> 226  
 <211> 39  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> MOD\_RES  
 <222> 29  
 <223> Lys in position 29 is PEGylated

<220>  
 <221> AMIDATION  
 <222> 39  
 <223> Ser in position 39 is amidated

<400> 226  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1                      5                      10                      15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Lys Gly Pro Ser  
                     20                      25                      30  
 Ser Gly Ala Pro Pro Pro Ser  
                     35

<210> 227  
 <211> 39  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> MOD\_RES  
 <222> 30  
 <223> Lys in position 30 is PEGylated

<220>  
 <221> AMIDATION  
 <222> 39  
 <223> Ser in position 39 is amidated

<400> 227  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1                      5                      10                      15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Lys Pro Ser  
                     20                      25                      30  
 Ser Gly Ala Pro Pro Pro Ser  
                     35

<210> 228  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> 1  
<223> His at position 1 is acylated

<220>  
<221> AMIDATION  
<222> 39  
<223> Ser in position 39 is amidated

<400> 228  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 229  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Amino Acid Sequence

<220>  
<221> MOD\_RES  
<222> 1  
<223> His at position 1 is alkylated

<220>  
<221> AMIDATION  
<222> 39  
<223> Ser in position 39 is amidated

<400> 229  
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 230  
<211> 39  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> MOD\_RES

<222> 27

<223> Lys in position 27 is PEGylated

<220>

<221> AMIDATION

<222> 39

<223> Ser in position 39 is amidated

<400> 230

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Arg Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 231

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> MOD\_RES

<222> 12

<223> Lys in position 12 is PEGylated

<220>

<221> AMIDATION

<222> 39

<223> Ser in position 39 is amidated

<400> 231

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Arg Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 232

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> 39

<223> Ser in position 39 is amidated

<400> 232

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Arg Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Arg Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
35

<210> 233

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> MOD\_RES

<222> 39

<223> Lys in position 39 is PEGylated

<220>

<221> AMIDATION

<222> 39

<223> Lys in position 39 is amidated

<400> 233

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Arg Gln Met Glu Glu  
1 5 10 15  
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Arg Asn Gly Gly Pro Ser  
20 25 30  
Ser Gly Ala Pro Pro Pro Lys  
35

<210> 234

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> MOD\_RES

<222> 30

<223> Lys in position 30 is PEGylated

<220>

<221> AMIDATION

<222> 39

<223> Ser in position 39 is amidated

<400> 234

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Arg Gln Met Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Arg Asn Gly Lys Pro Ser  
 20 25 30  
 Ser Gly Ala Pro Pro Pro Ser  
 35

<210> 235  
 <211> 39  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> MOD\_RES  
 <222> 27  
 <223> Lys in position 27 is PEGylated

<220>  
 <221> AMIDATION  
 <222> 39  
 <223> Ser in position 39 is amidated

<400> 235  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Arg Gln Met Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
 20 25 30  
 Ser Gly Ala Pro Pro Pro Ser  
 35

<210> 236  
 <211> 39  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
 <221> MOD\_RES  
 <222> 12  
 <223> Lys in position 12 is PEGylated

<220>  
 <221> AMIDATION  
 <222> 39  
 <223> Ser in position 39 is amidated

<400> 236  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Arg Asn Gly Gly Pro Ser  
 20 25 30  
 Ser Gly Ala Pro Pro Pro Ser

<210> 237  
 <211> 39  
 <212> PRT  
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<220>  
 <223> Synthetic Amino Acid Sequence

<220>  
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 <222> 1  
 <223> His in position 1 is PEGylated

<220>  
 <221> AMIDATION  
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 <223> Ser in position 39 is amidated

<400> 237  
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   1                  5                  10                  15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Arg Asn Gly Gly Pro Ser  
                   20                  25                  30  
 Ser Gly Ala Pro Pro Pro Ser  
                   35

<210> 238  
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<220>  
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<220>  
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<220>  
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 <223> Ser in position 39 is amidated

<400> 238  
 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Arg Gln Met Glu Glu  
   1                  5                  10                  15  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Arg Asn Gly Gly Pro Ser  
                   20                  25                  30  
 Ser Gly Ala Pro Pro Pro Ser  
                   35

<210> 239  
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<220>

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<220>

<221> MOD\_RES

<222> 39

<223> Lys in position 39 is PEGylated

<220>

<221> AMIDATION

<222> 39

<223> Lys in position 39 is amidated

<400> 239

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Arg	Gln	Met	Glu	Glu
1				5				10				15			
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Arg	Asn	Gly	Gly	Pro	Ser
		20					25					30			
Ser	Gly	Ala	Pro	Pro	Pro	Lys									
		35													

<210> 240

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Amino Acid Sequence

<220>

<221> MOD\_RES

<222> 30

<223> Lys in position 30 is PEGylated

<220>

<221> AMIDATION

<222> 39

<223> Ser in position 39 is amidated

<400> 240

His	Gly	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Leu	Ser	Arg	Gln	Met	Glu	Glu
1				5				10				15			
Glu	Ala	Val	Arg	Leu	Phe	Ile	Glu	Trp	Leu	Arg	Asn	Gly	Lys	Pro	Ser
		20					25					30			
Ser	Gly	Ala	Pro	Pro	Pro	Ser									
		35													